

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application. Added text is indicated by underlining, deleted text is indicated by ~~strikethrough~~. Changes are identified by a change bar in the margin.

**Listing of Claims:**

Claims 1-22 (canceled)

- 1                   23. (currently amended) A storage system comprising:  
2                   a first I/O port for connection to a communication network;  
3                   at least a second I/O port separate from the first I/O port for connection to the  
4                   communication network, the first and second I/O ports each receiving write requests;  
5                   an array of media for storing information, the array comprising a plurality of disk  
6                   storage units organized into a plurality of logical disks;  
7                   a plurality of data paths, each data path being selectively connectable between any  
8                   one of the logical disks and any one of the I/O ports;  
9                   a configuration table that identifies the logical disks for connection with the I/O  
10                  ports;  
11                   an allocator to allocate one of the data paths between one of the logical disks and  
12                  one of the I/O ports based upon a data rate capability of said one data path determined from  
13                  communication speed information of the configuration table to thereby provide a desired quality  
14                  of service.  
1                   24. (previously presented) A storage system as in claim 23 wherein the array of  
2                  media includes media having different operational characteristics, and wherein the storage  
3                  system allocates individual ones of the array of media to individual ones of the data paths to  
4                  provide the desired quality of service.  
1                   25. (canceled)

1               26. (previously presented) A storage system as in claim 24 wherein the array of  
2 media comprise hard disk drives, and the different operational characteristics comprise different  
3 communication speeds of operation.

1               27. (previously presented) A storage system as in claim 24 wherein the storage  
2 system allocates ones of the array of media based upon a data rate capability of the media and a  
3 data rate capability of a communication link coupled to one of the data paths.

1               28. (previously presented) A storage system as in claim 24 wherein the desired  
2 quality of service comprises a specified bandwidth and wherein the storage system allocates  
3 individual ones of the array of media based upon a guaranteed bandwidth.

1               29. (currently amended) A storage system comprising:  
2               an array of storage media;  
3               at least a first I/O port and a second I/O port separate from the first I/O port, each  
4               having a network connection operable to connect the array to a network with a desired quality of  
5               service;

6               a configuration table that identifies logical disks of the array for connection with  
7               the I/O ports;  
8               a plurality of data paths to selectively couple the I/O ports to the storage media,  
9               wherein a data path between one or more of the array of storage media and the network  
10              connection is selected in accordance with data rate capability determined from communication  
11              speed information of the configuration table to provide sufficient data speed to accommodate  
12              provide the desired quality of service.

1               30. (currently amended) A method for allocating resources in a storage system,  
2 the storage system comprising a first of I/O port and a second I/O port separate from the first I/O  
3 port and an array of storage devices coupled to a network connection by data paths, the method  
4 comprising:

5                   establishing a data path between a storage device of the array and one of the I/O  
6 ports, wherein said one of the I/O ports is coupled to the network connection; the data path being  
7 selected in accordance with data rate capability determined from communication speed  
8 information from a configuration table that identifies logical disks of the array for connection  
9 with the I/O ports to provide a desired quality of service sufficient data speed based upon data  
10 capacity of the storage device and data rate capability of the network connection determined in  
11 accordance with communication speed information from a configuration table; and  
12                   selecting a storage device of the array based upon the data capacity and the data  
13 rate capability of the network connection.

1                   31. (previously presented) The method of claim 30 wherein the step of  
2 establishing the data path comprises assigning a data path having a sufficient data speed to  
3 accommodate the desired quality of service.

1                   32. (previously presented) The method of claim 30 wherein the step of  
2 establishing a data path comprises searching for unallocated data communications resources to  
3 accommodate a data capacity of the array.

1                   33. (currently amended) The method of claim 30 37, wherein the step of  
2 selecting ones of the array comprises searching for unallocated ones of the array having a  
3 sufficient data capacity to match a data rate capability of the network connection.

1                   34. (previously presented) A storage system as in claim 23 wherein the  
2 configuration table includes information relating to data rate capability of the I/O ports and the  
3 logical disks.

1                   35. (previously presented) A storage system as in claim 29 wherein the  
2 configuration table includes information relating to data rate capability of the I/O ports and the  
3 array of storage media.

1           36. (previously presented) The method of claim 30 wherein the configuration  
2       table includes information relating to data rate capability of the I/O ports and the array of storage  
3       devices.

1           37. (new) The method of claim 30, further comprising:  
2           selecting a storage device of the array based upon data capacity of the storage  
3       device and data rate capability of the network connection.

1           38. (new) A storage system as in claim 23, wherein the allocator further allocates  
2       the data path by assigning a data path having a sufficient data speed to accommodate the desired  
3       quality of service.

1           39. (new) A storage system as in claim 23, wherein the allocator further allocates  
2       the data path by searching for unallocated data communications resources to accommodate a data  
3       capacity of the array.

1           40. (new) A storage system as in claim 23, wherein the allocator further allocates  
2       the data path by selecting a storage device of the array based upon data capacity of the storage  
3       device and data rate capability of the network connection.

1           41. (new) A storage system as in claim 40, wherein the allocator selects ones of  
2       the array by searching for unallocated ones of the array having a sufficient data capacity to match  
3       a data rate capability of the network connection.

1           42. (new) A storage system as in claim 29, wherein the array of media includes  
2       media having different operational characteristics, and wherein the storage system allocates  
3       individual ones of the array of media to individual ones of the data paths to provide the desired  
4       quality of service.

1                  43. (new) A storage system as in claim 29, wherein the array of media comprise  
2 hard disk drives, and the different operational characteristics comprise different communication  
3 speeds of operation.

1                  44. (new) A storage system as in claim 29, wherein the storage system allocates  
2 ones of the array of media based upon a data rate capability of the media and a data rate  
3 capability of a communication link coupled to one of the data paths.

1                  45. (new) A storage system as in claim 29, wherein the desired quality of service  
2 comprises a specified bandwidth and wherein the storage system allocates individual ones of the  
3 array of media based upon a guaranteed bandwidth.